Note: This document is a work in progress and is incomplete.

Aeroxcraft Brushless GoPro Gimbal User Manual (V1.0)

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Notes

REMOVE PROPELLERS AND DISCONNECT MOTORS BEFORE PROCEDING.

This document is a work in progress. Information contained within this document may be incorrect and we cannot be held responsible for any damage/injuries caused by following the information contained within this document.

If you are unsure what you are doing get advice from someone who does.

Multirotor helicopters are dangerous. Operate them away from people and property. Be responsible. If in doubt do not fly.

Always remove propellers from motors before carrying out work on your multirotor helicopter. Failure to do so can cause serious injury.

It is the owner's responsibility to ensure this model is assembled and fitted out correctly and safely. Ensure that your model is capable of safely and reliably lifting the payload you are asking it to. This model is dangerous if used in an incorrect manner. Ensure you seek assistance from an experienced flyer if you are unsure. Do not fly near people, property or highways. Do not fly over people, property or highways. There may be laws and regulations governing the use of this model in your area, seek advice from your authorities if you are unsure.

Planning your build and installation is key to building a safe and reliable multi rotor. Make sure all wiring is of the correct gauge, properly connected, neat and protected from wear/tear and radio/electrical interference. Make sure all the components you use are suitable for the size and weight of your multi rotor.

Do not over tighten screws.

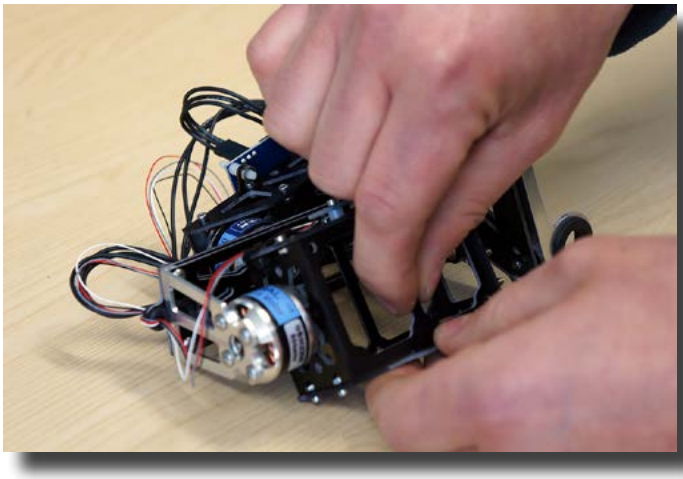
Check this product for damaged hardware, loose joints, missing parts or sharp edges before and after assembly and frequently during use. Do not use unless all components are correctly fitted and adjusted. Do not use if any parts are missing, damaged or broken.

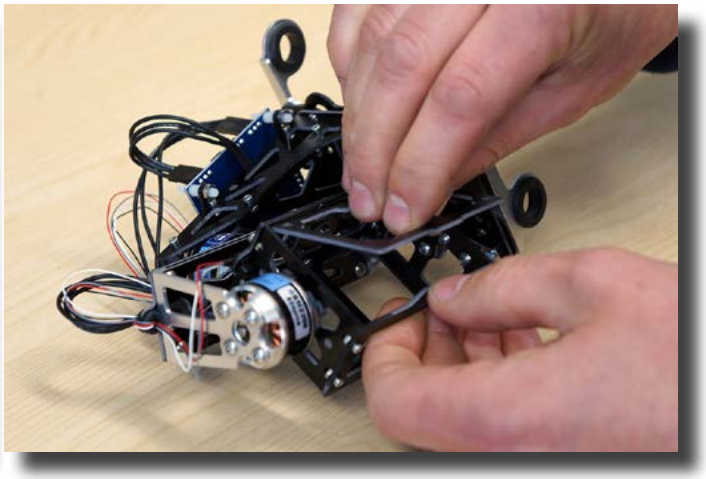
Assembly is required. Take care when unpacking and assembling; contains small parts and sharp edges.

If you require any replacement parts they are all available from Aeroxcraft. Contact us for details.

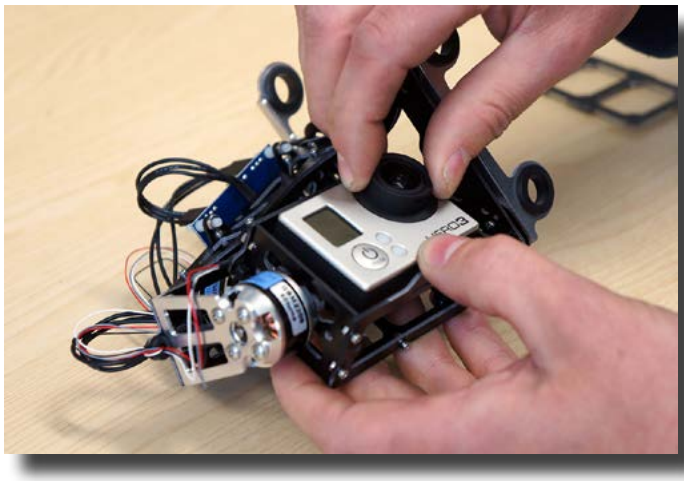
Installing your GoPro Camera

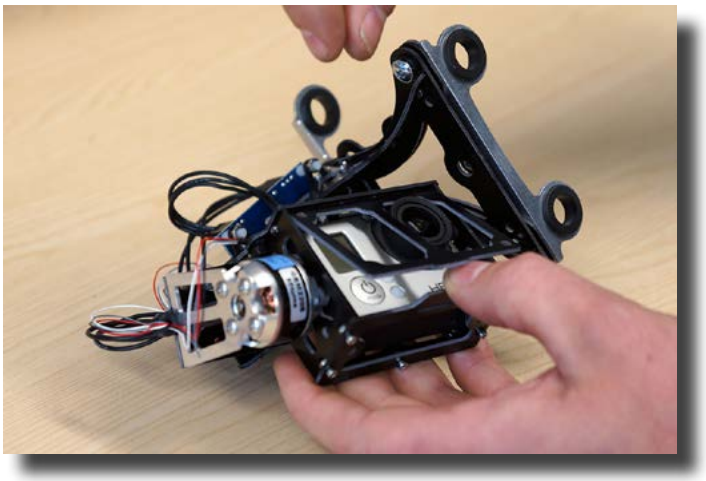
For ease of use, the GoPro camera housing is front loading. To install your camera, first remove the front of the housing. Push down on the protuding housing tab and then pull out the retaining plate.



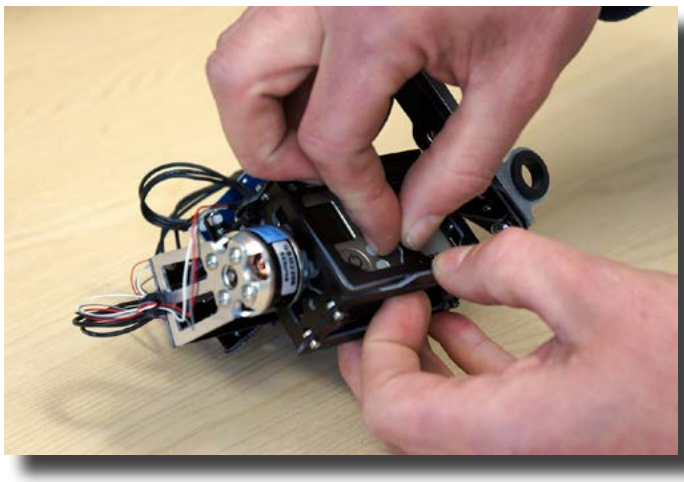


Push your GoPro into the housing.





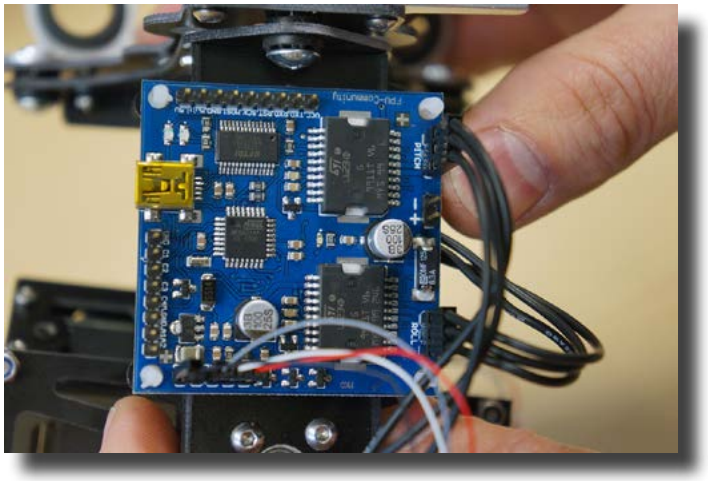
Replace the retaining plate. First, insert the top of the retaining plate into the housing.

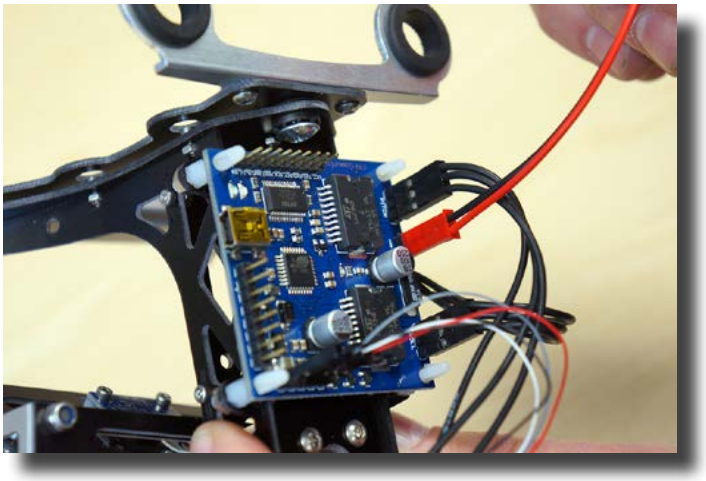


Connecting Power

The gimbal is setup to run at 7.4 volts. There are 2 connection pins on the controller board for the power (+) & (-). Connect the pins to a 7.4 volt source such as a 2S lipo or an adjustable BEC.

When powering up the gimbal make sure the camera housing is kept completely still and the housing is the correct way up. The board may well not initialise properly if it detects any movement.

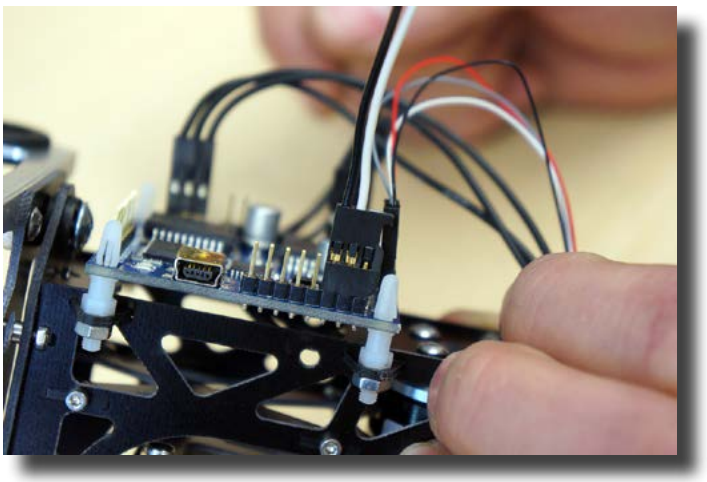


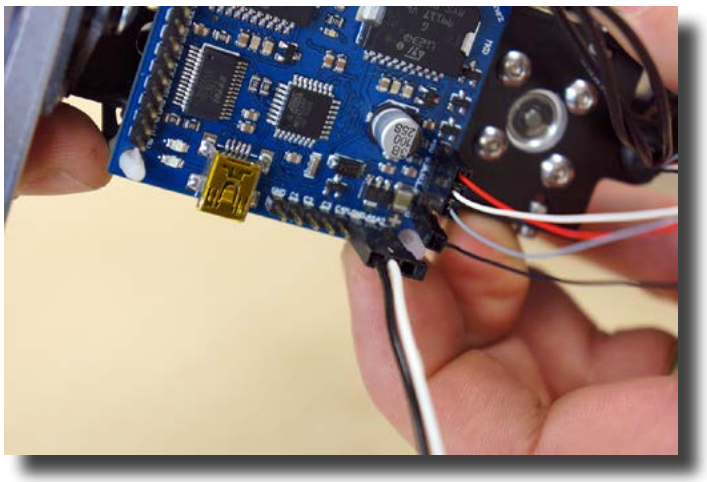


Pitch Control

To control the tilt/pitch of the gimbal you need to connect a spare channel on your RX to the gimbal control board. An ideal way to do this is to modify a spare servo lead. Only 2 connections are required, the ground (Black) and the signal wire (usually white, orange or yellow).

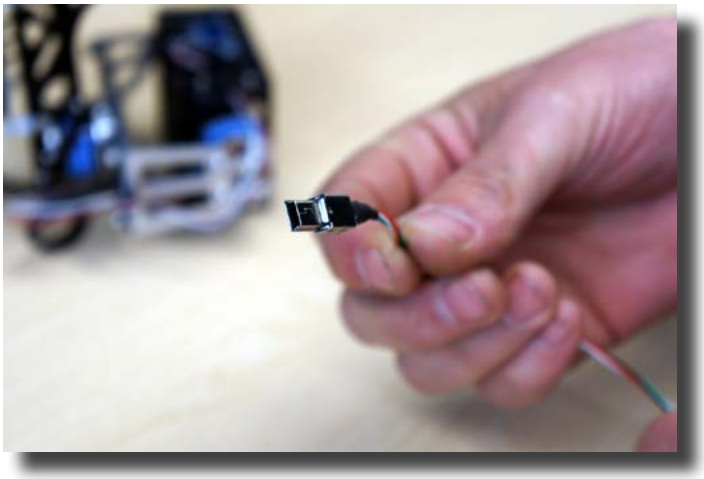
Connect the black wire to the GND pin and the signal wire to the A1 pin.

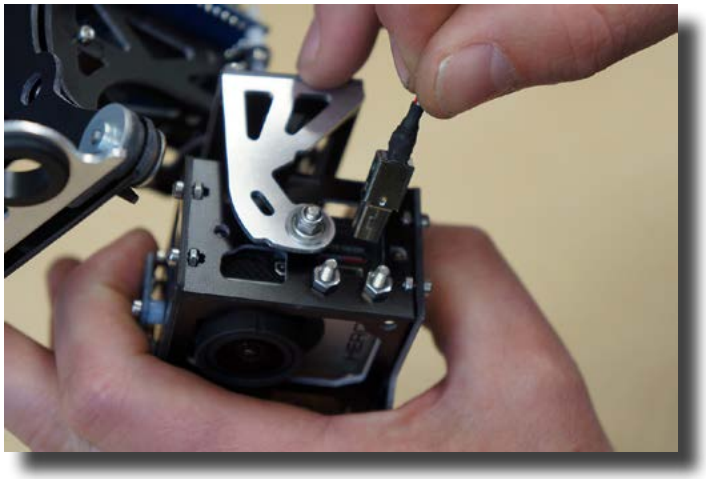


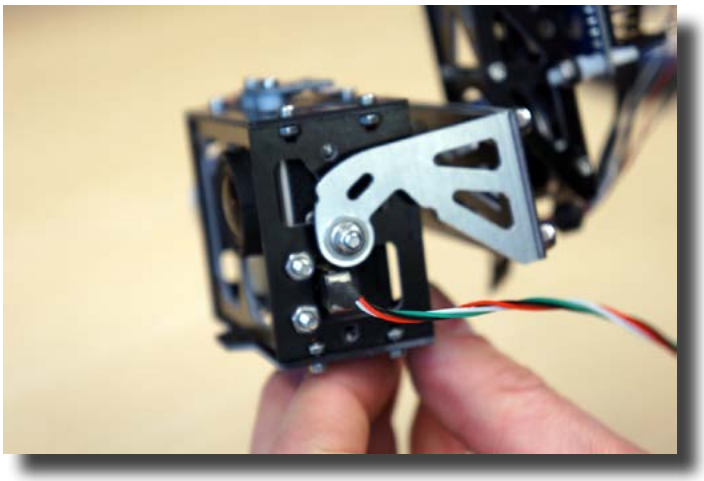


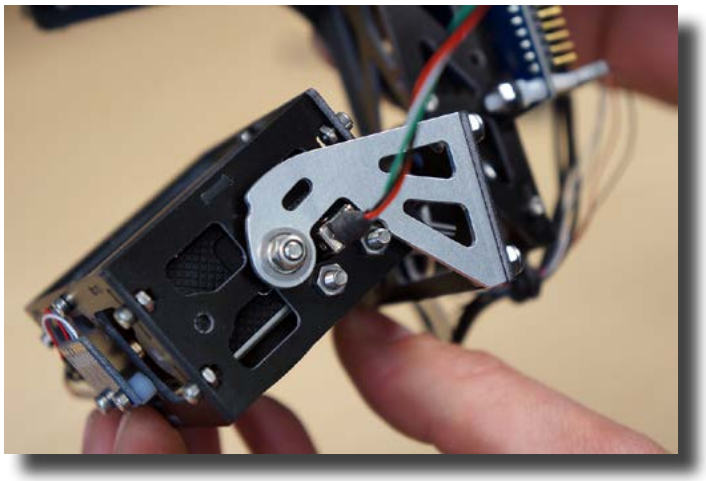
USB Cable for composite video

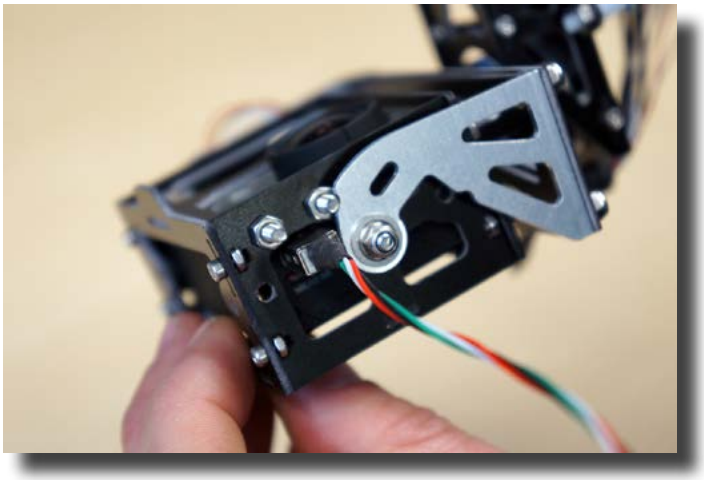
The GoPro Hero 3 has composite video out from it's USB port. To make use of this useful feature the gimbal has clearances to allow a USB cable to be connected. The plastic covering needs to be carefully cut away from the connector and the outer cable insulation needs to be removed to minimise physical interference of the gimbals movement.











Fitting Silicone Gel Isolataors